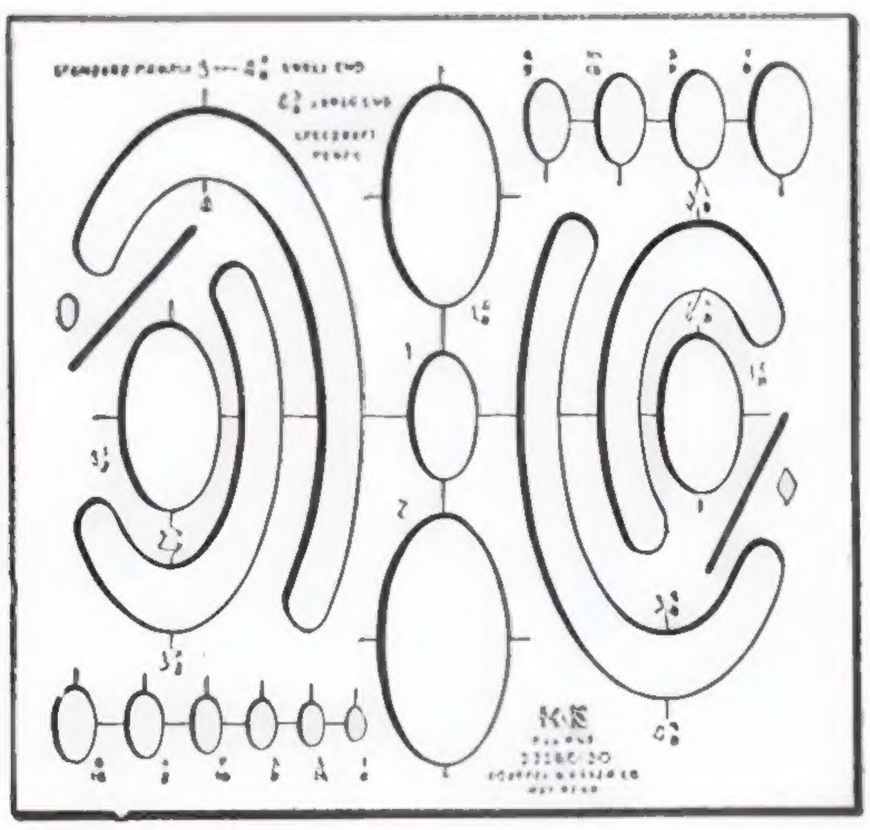
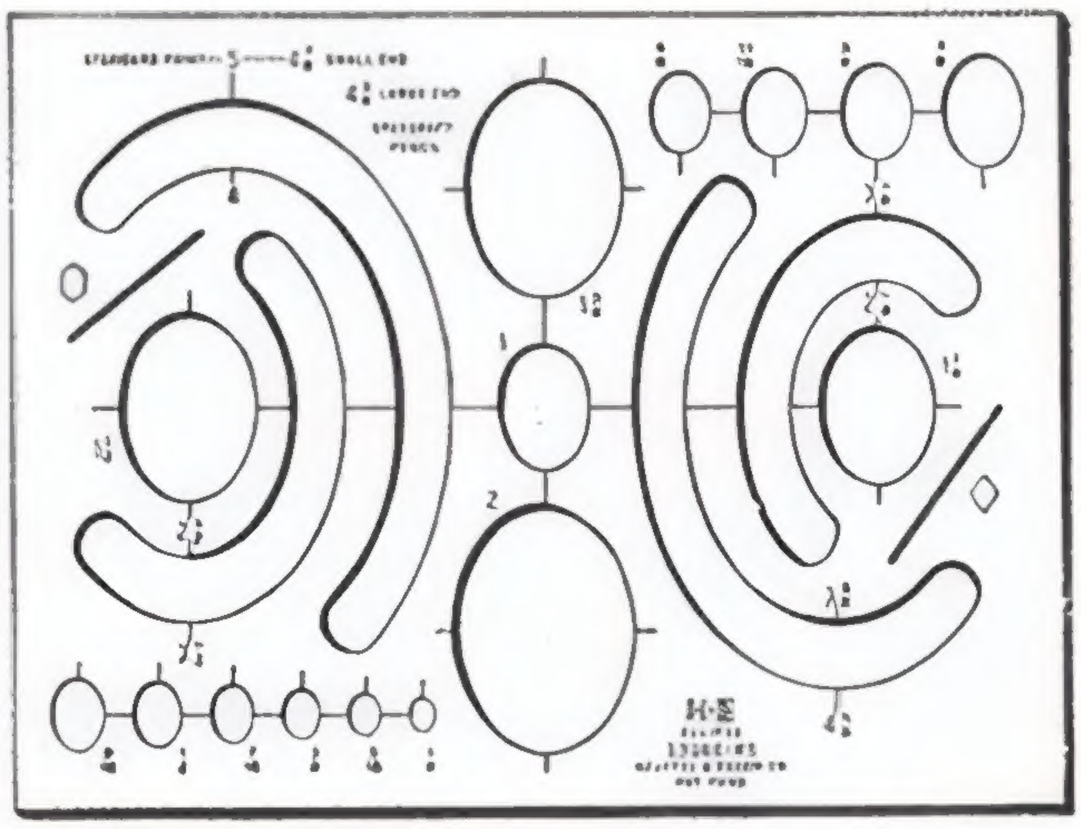
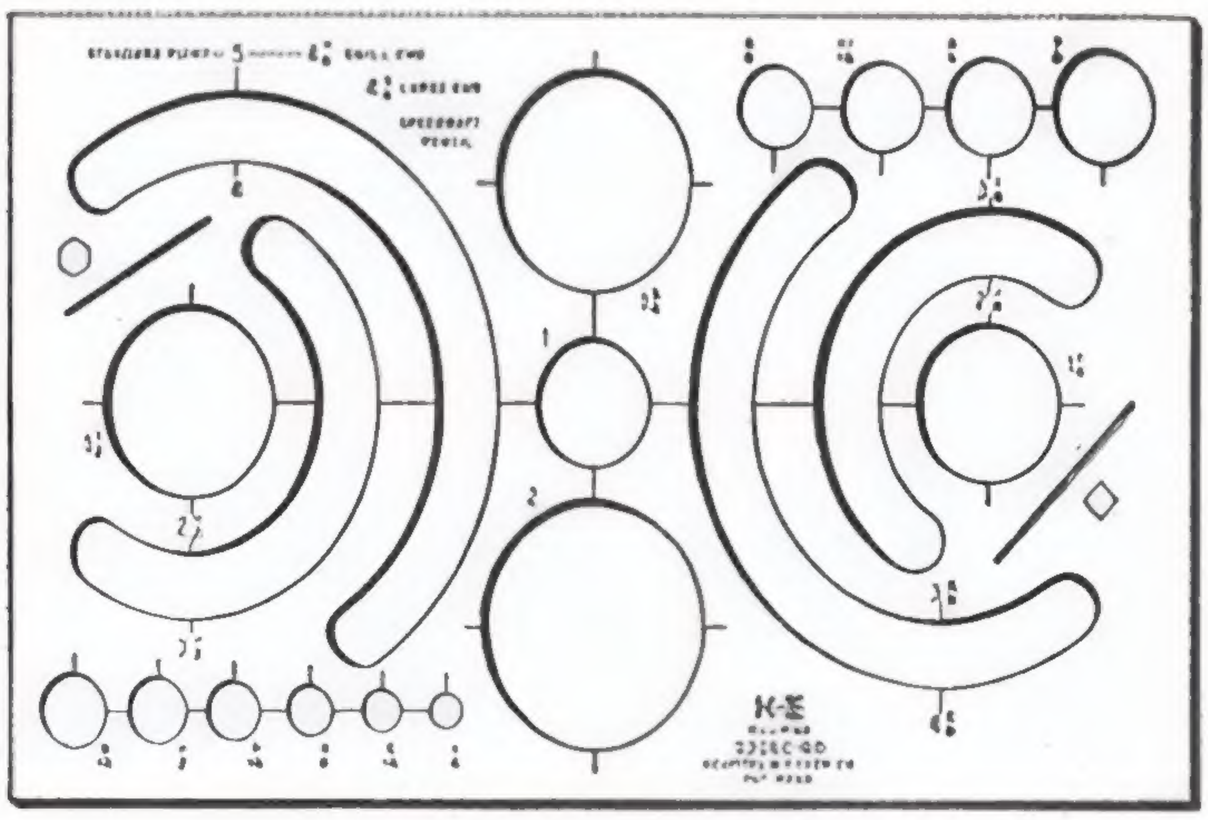
ELLIPSE TEMPLATES

The three templates listed below form a set by means of which ellipses may be quickly drawn in various sizes from ¼ in. to 5 in. major axis, and in three different degrees of ellipticity. With the aid of the No. 1317P-10 Speedraft Pencil this range can be increased on each template to a full series at 1/16 in. increments. Ellipses over 2 in. can be drawn complete in two strokes by a half turn of the template. Radial lines locate the axes of the ellipses.







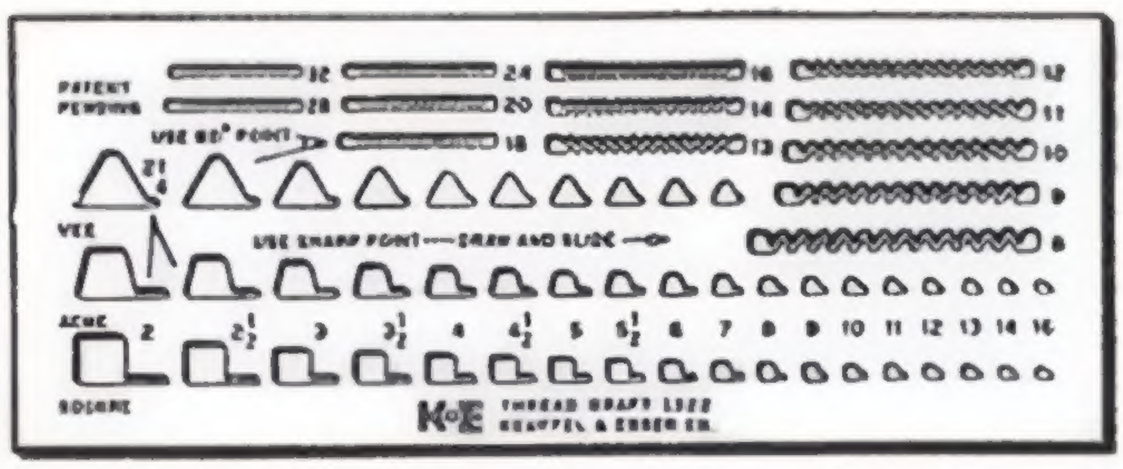
1316E-30 ELLIPSE TEMPLATE, transparent plastic, for drawing ellipses with major axes of ¼ in. to 5 in., with ratio of minor to major axes of 0.5 to 1.

1316E-45 ELLIPSE TEMPLATE, transparent plastic, for drawing ellipses with major axes of ¼ in. to 5 in., with ratio of minor to major axes of 0.707 to 1.

1316E-60 ELLIPSE TEMPLATE, transparent plastic, for drawing ellipses with major axes of ¼ in. to 5 in., with ratio of minor to major axes of 0.866 to 1.

1317P-10 SPEEDRAFT PENCIL (See page 168).

THREAD DRAFT TEMPLATE



1322 THREAD DRAFT TEMPLATE, transparent plastic.

The No. 1322 Thread Draft Template speeds up the accurate profile outlines of screw threads in the following forms of thread and ranges of sizes:

U. S. Standard or American National	2¼	to 32 threads per inch.
Acme	2	to 16 threads per inch.
Square	2	to 16 threads per inch.

SPEEDRAFT® PENCIL

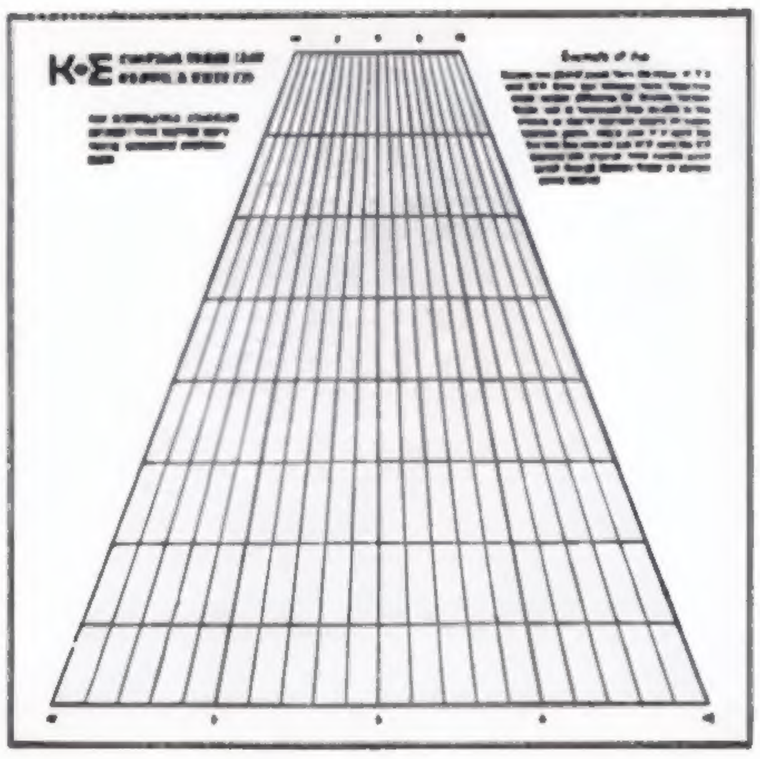
Adapters. Actual Size.

The No. 1317P-10 Speedraft Pencil, in addition to being a very efficient clutch type draftsman's pencil for all drafting work, is specially designed for use in conjunction with the Nos. 1314E-10 and 1314E-20 Isometric Templates and Nos. 1316E-30, 1316E-45 and 1316E-60 Ellipse Templates in the manner described under those items. This pencil holds standard drafting leads. The metal tip with which it is fitted for standard drafting is removable. This can be replaced by any one of four adapters furnished with the pencil for use when the axis of ellipses on the templates are to be increased or decreased as follows: No. 1 1/16 in., No. 2 1/8 in., No. 3 3/16 in., No. 4 1/4 in.

1317P-10 SPEEDRAFT PENCIL, with four adapters and eraser tip.

CONTOUR FINDER

1340 CONTOUR FINDER, vinyl film, for interpolating contours between two plotted elevations. Sheet 9 x 9 in.



DRAWING PENCILS

ACCURATE

3350 ACCURATE DRAWING PENCILS, Johann Faber, blue, gilt, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H.

VENUS

3356 VENUS DRAWING PENCILS, crackled green finish, edgeless, 6B, 5B, 4B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

TURQUOISE

3360 TURQUOISE DRAWING PENCILS, turquoise blue finish, slightly rounded edges, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

MARS LUMOGRAPH

3376 MARS LUMOGRAPH PENCILS, blue polish, J. S. Staedtler Inc., EXEXB, EXB, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

CASTELL

3379 CASTELL PENCILS, A. W. Faber, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

KOH-I-NOOR

3380 KOH-I-NOOR PENCILS, yellow polish, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

DRAWING LEAD HOLDERS AND LEADS

TURQUOISE

3361P TURQUOISE PRESTOMATIC LEAD HOLDER, polished aluminum, adjusts by pressing cap, which can be positioned to indicate degree of lead. Holds leads from 4B to 9H.

3362 TURQUOISE DRAWING LEADS, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H; six in box.

MARS LUMOGRAPH

N3377 MARS LUMOGRAPH TECHNICO LEAD HOLDER, push-button cap with sharpener, blue polish, EXB, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H.

3377L MARS LUMOGRAPH DRAWING LEADS, EXB, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H. Degrees HB to 6H twelve in box; other degrees six in box.

CASTELL

3378A CASTELL LOCKTITE LEAD HOLDER, push-button type, green polish, 7B, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.

3378L CASTELL DRAWING LEADS, 7B, 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. Degrees 4B to 9H twelve in plastic tube; 7B to 5B six in tube.

COMPASS LEADS

3386 KOH-I-NOOR COMPASS LEADS, HB, H, 2H, 3H, 4H. 12 in box.

COLORED PENCILS

VERITHIN

3395 EAGLE VERITHIN COLORED.

734*	White	738½	Light Green	743	Pink	748	Red and Blue
734½	Light Grey	739	Green	743½	Rose	750*	Vermilion
735*	Canary Yellow	739½	Olive Green	744	Scarlet Red	751*	Emerald Green
735½	Lemon Yellow	740*	Ultramarine Blue	745	Carmine Red	752	Purple
736	Yellow Ochre	740½	Sky Blue	745½	Terra Cotta	753*	Silver
736½	Orange Ochre	741*	Indigo Blue	746	Sienna Brown	754*	Gold
737	Orange	741½	Azure Blue	746½	Tuscan Red	755	Golden Brown
737½	Sea Green	742	Violet	747	Black	756	Dark Brown
738	Grass Green	742½	Lavender	747½	Dark Grey	757	Flesh

BLUEPRINT PENCILS. Colors above designated by * are specially recommended for marking blueprints.

3395S EAGLE VERITHIN COLORED, set (No. 796) of twelve colors: Carmine, Scarlet, Orange, Yellow, Dark Green, Grass Green, Indigo Blue, Sky Blue, Violet, Brown, Black, White.

BEST

3397 DIXON'S BEST COLORED.

254½	Light Green	323½	Purple	331	Black	352	White
320	Sky Blue	324	Orange	343	Brown	352½	Gray
321½	Lake Red	324½	Yellow Ochre	349	Red	353	Golden Yellow
322	Pink	325	Olive Green	350	Blue	354	Green
323	Violet	330	Ultramarine Blue	351	Terra Cotta Red		

3398 DIXON'S BEST COLORED, set of twelve colors: Black, Blue, Brown, Gray, Green, Orange, Red, Lake Red, Violet, White, Golden Yellow and Yellow Ochre.

TRADITION-CHROMA

3402 TRADITION-CHROMA COLORED.

2656*	Silver	2661	Lemon Yellow	2665	Mountain Blue	2669	Mouse Grey
2657*	Gold	2662	Ivory Black	2666	Chrome Green	2670*	Brick Red
2658	Vermilion Red	2663	Bishops Lilac	2667	Saturn Orange	2671*	Zinc Yellow
2659*	Indigo Blue	2664	Florentine Brown	2668*	Chalk White	2672	Carmine Red
2660	Grass Green						

BLUEPRINT PENCILS. Colors above designated by * are specially recommended for marking blueprints.

3402S TRADITION-CHROMA COLORED, set (No. 1352) of twelve colors: Vermilion Red, Indigo Blue, Grass Green, Lemon Yellow, Ivory Black, Bishops Lilac, Florentine Brown, Mountain Blue, Chrome Green, Saturn Orange, Chalk White, Mouse Grey.

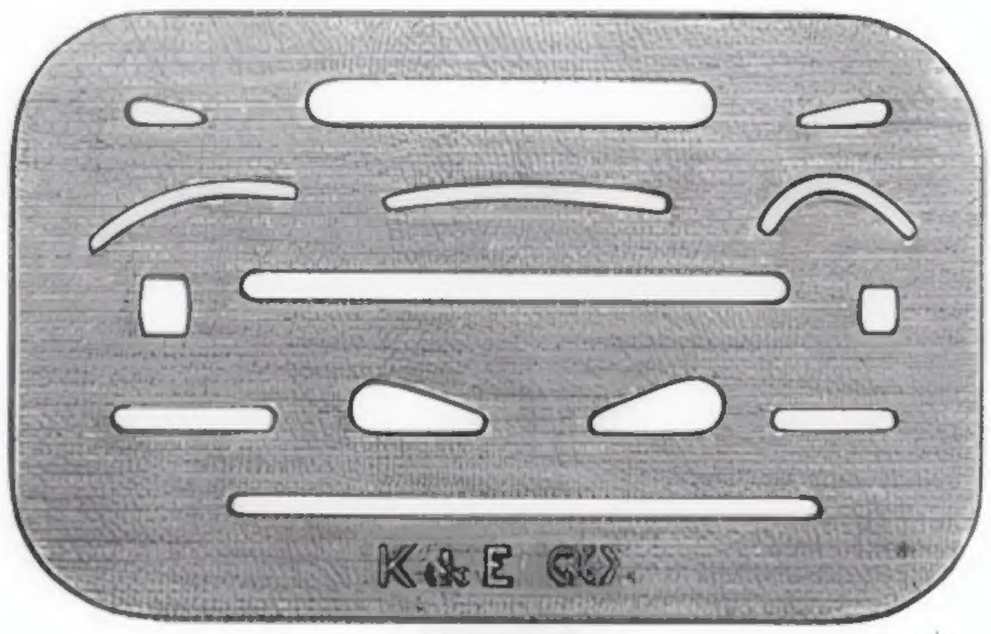
LUMBER CRAYONS

3405

3404 FAVORITE LUMBER CRAYONS, 4¾ x ½ in., paper covered, Black, Blue, Red and Yellow.

3405 DIXON'S LUMBER CRAYONS, 4½ x ½ in., paper covered, Carbon Black, Yellow, Red, Blue, Green.

ERASING SHIELDS



N3409

N3409 ERASING SHIELD, Stainless Steel; 2⅜ x 3¾ in.

3412 ERASING SHIELD, Transparent plastic; 2⅜ x 3¾ in.

ERASERS

3453 E. FABER PINK PEARL PENCIL ERASER, large, double beveled, 2½ x 13/16 x 7/16 in.

3460A ART GUM, 1⅛ x 1⅛ x 1⅛ in.
3460B ART GUM, 2 x 1 x 1 in.
3460C ART GUM, 2¼ x 1⅛ x 1⅛ in.
3460D ART GUM, 3 x 2 x 1 in.
3460E ART GUM, 3 x 3 x 2 in.

3456R-1 E. FABER RUBY PENCIL ERASER, red, double beveled, medium, 2½ x ⅝ x 5/16 in.

3456R-2 Same, large, 3½ x 11/16 x ⅜ in.

K & E GUM ERASER AND CLEANER.

3461A 1⅛ x 1⅛ x 1⅛ in.
3461B 2 x 1 x 1 in.
3461C 2¼ x 1⅛ x 1⅛ in.

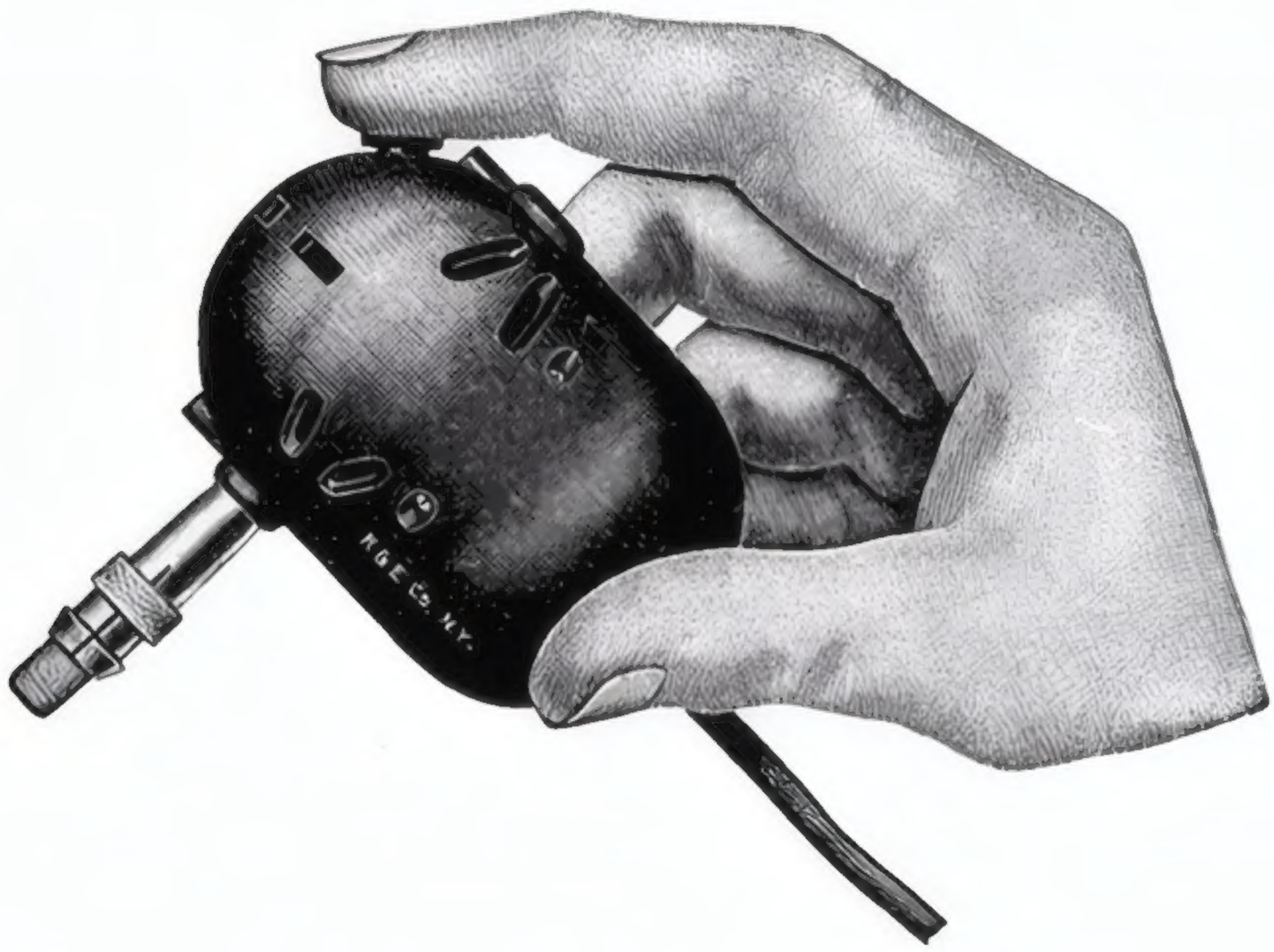
3457 E. FABER VAN DYKE SOFT INK ERASER, double beveled, 2¾ x 1 3/16 x ⅜ in.

3470 FELT ERASER FOR DUPRO, ¼ x ½ x 1½ in., box of five.

K & E MOTORASER

TRADE MARK

ELECTRIC ERASING MACHINE



This small electric erasing machine cleans large areas rapidly and with no appreciable effort. It reduces erasing time to seconds, and physical effort to nothing at all. Speed, not pressure, makes the erasure; an insurance in itself that holes will not be worn in the drawing. The control switch is directly under the finger tip.

The K & E MOTORASER is a rugged mechanism, housed in a minimum of space. It weighs only six ounces, and fits the palm of the hand. The housing, of moulded plastic, is only 3 inches long, by 2½ inches in diameter. It has no corners or sharp edges. The high speed eraser can be directed as accurately as a pencil point.

This erasing machine is built for long and economical service. The housing will not dent, nor will its finish crack or chip off. The eraser chuck is turned from solid stock and will hold its alignment permanently. Accessible brush holders provide for quick, easy brush replacement whenever necessary after extensive use.

It is designed for use with 60 cycle alternating current (110 volt). For direct current it should be used with adapter No. 3474R.

3474A MOTORASER, for 110 volts AC, complete with 6 ft. electric cord, plug and 6 each erasers Nos. 3474-10 and 3474-11.

3474R ADAPTER for using No. 3474A with 110 volts DC.

3474-10 PENCIL ERASER for No. 3474A.

3474-11 INK ERASER for No. 3474A.

STEEL ERASERS

N3481

N3486

N3481 STEEL ERASER with long blade.
N3486 STEEL ERASER with short blade.

PENCIL POINTERS

3488 LEAD PENCIL FILE AND TACK LIFTER, 6 in.

3505

Plastic Refillable Pencil Pointer No. 3505 is made of dark green plastic. 12 refill sheets are held firmly by a spring, but can be removed singly without loosening the rest. Refills are easily inserted.

3505 REFILLABLE PENCIL POINTER, plastic, 7½ in. length, furnished with 12 Flint Paper Sheets in the holder and 24 extra sheets.

3505E EMERY PAPER REFILLS, package of 12 sheets, 1¼ x 4 in., for refillable Pencil Pointer No. 3505.

3505F FLINT PAPER REFILLS, package of 12 sheets, 1¼ x 4 in., for refillable Pencil Pointer No. 3505.

3507 PENCIL POINTER, flint paper, 12 sheets, with wooden handle. Block 1 x 3¼ in.

3508 PENCIL POINTER, similar to No. 3507, but emery paper.

DUSTING BRUSHES

3510

3510 DUSTING BRUSH, 2½ in. white bristle, staple set in hardwood, 13 inches long, 5 in. handle. Finest quality flat beveled style, which lies flat and which stows away readily in a drawer.

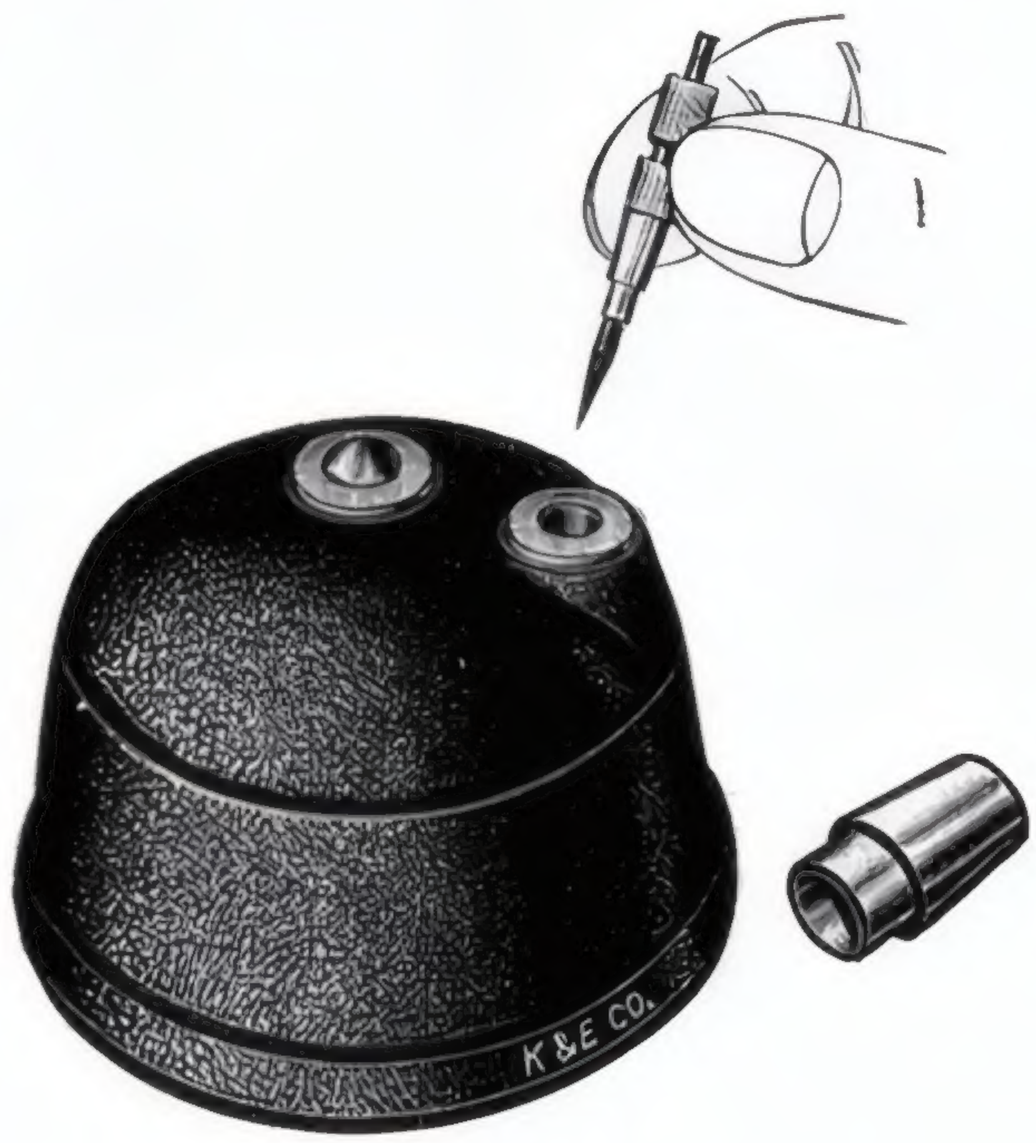
3511 DUSTING BRUSH, 2 in. bristles, staple set in hardwood, 14½ in. long, 6 in. handle.

PENCIL LEAD POINTERS

3515 TRU-POINT PENCIL LEAD POINTER. A dual purpose sharpener for pointing leads in Draftsmen's Mechanical Pencils without removal from their holders, or for pointing LEROY Leads while held in a LEROY Lead Clutch. Simple interchangeable adapters are furnished for both purposes. (See also page 261.)

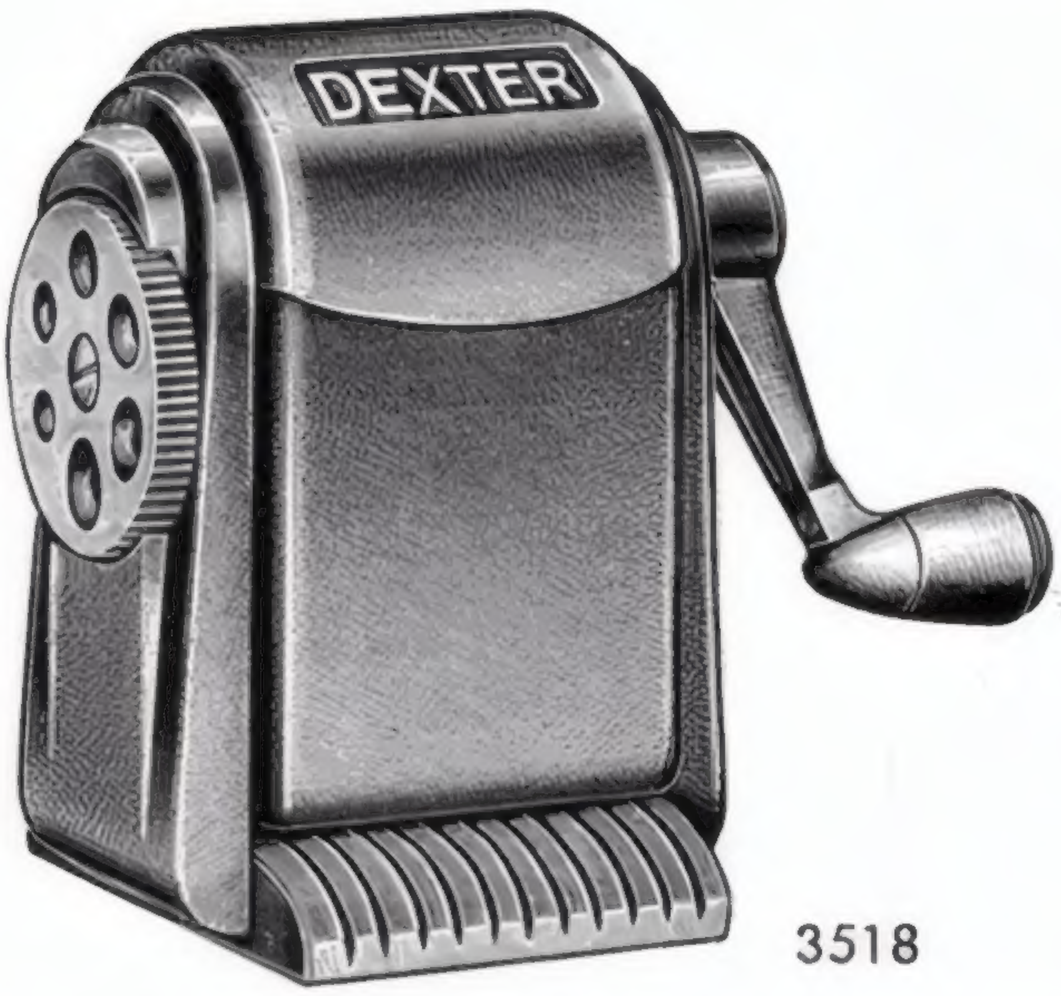
3516 TRU-POINT PENCIL LEAD POINTER. The same as No. 3515 but for pointing leads in Draftsmen's Mechanical Pencils only, and without adapter for pointing LEROY Leads.

3515R TRU-POINT ABRASIVE LINER REFILLS, 3 in package.



3515

PENCIL SHARPENERS



3518

Showing lead exposed when No. 3518 is used.

3517 DEXTER PENCIL SHARPENER, steel frame, enameled in gray. Sharpens pencils of all diameters and has a point adjuster to produce any point, from blunt to fine.

3518 DEXTER PENCIL SHARPENER, steel frame, enameled in gray. Cuts away the wood only, exposing the lead without pointing it. The lead may then be pointed on a pencil pointer or file (see page 267) as required.